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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/871,053 05/31/2001		William M. Richardson	65807-0054	9152		
10291	7590 10/12/2004		EXAM	EXAMINER		
RADER, FIS	HMAN & GRAUER PL	NGUYEN, HANH N				
39533 WOOD	WARD AVENUE		ADTIBUT	DADED MUNICIPAL		
SUITE 140			ART UNIT	PAPER NUMBER		
BI OOMEIEI	DHILLS MI 48304-0616	2662				

DATE MAILED: 10/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicati	Application No. Applicant(s)					
		09/871,0	53	RICHARDSON, WILLIAM M.				
		Examine	r	Art Unit				
		Hanh Ng		2662				
: Period for I	The MAILING DATE of this communication Reply	appears on th	e cover sheet with the c	correspondence ac	ddress			
THE MA - Extension after SIX - If the period of the period	RTENED STATUTORY PERIOD FOR REALING DATE OF THIS COMMUNICATION in soft time may be available under the provisions of 37 CFF (6) MONTHS from the mailing date of this communication from the provision of 37 CFF (30) days, a griod for reply specified above, the maximum statutory per to reply within the set or extended period for reply will, by stay received by the Office later than three months after the maximum adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no ex reply within the sta riod will apply and v atute, cause the app	ent, however, may a reply be tin tutory minimum of thirty (30) day ill expire SIX (6) MONTHS from dication to become ABANDONE	nely filed s will be considered time the mailing date of this of (35 U.S.C. § 133).	ly. communication.			
Status								
1)⊠ R	esponsive to communication(s) filed on <u>A</u>	pplication filed	l on 5/31/01.					
2a) <u> </u>	☐ This action is FINAL . 2b) ☑ This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	of Claims							
4a 5)□ Cl 6)⊠ Cl 7)□ Cl	aim(s) 1-41 is/are pending in the applicat) Of the above claim(s) is/are without aim(s) is/are allowed. aim(s) 1-41 is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction an	drawn from cc						
Application	Papers							
9) <u></u> Th	e specification is objected to by the Exam	niner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	eplacement drawing sheet(s) including the cor e oath or declaration is objected to by the							
Priority und	der 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)			_					
1) Notice o	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary Paper No(s)/Mail Da	(PTO-413)				
3) 🔀 Informat	ion Disclosure Statement(s) (PTO-1449 or PTO/SB/ b(s)/Mail Date <u>20041005</u> .	/08)	5) Notice of Informal P 6) Other:		O-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 16 and 37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 16 and 37, it is not clearly stated what is meant by "removing a contribution of a real component of the resistance of the link".

Claims 38-41 are rejected because they depend on claim 37 respectively.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1 & 17 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,324,168 B1. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1 & 17 of the instant application merely broaden the scope of claim 1 of the Patent by

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eliminating the steps of calculating at least a first order-differential of the response as a function of delay from the generation of the predetermined signal; determining where the first-order differential indicates an inflection; and identifying the inflection as the terminal.

Claims 9 & 28 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 8 of U.S. Patent No. 6,324,168 B1. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 9 & 28 of the instant application merely broaden the scope of claim 8 of the Patent by eliminating the steps made by a system processor that search the response for the matched terminator by searching for an inflection point in induced voltage on the network cabling by calculating at least a first-order differential of the response as a function of delay from the generation of the predetermined signal.

It has been held that the omission an element and its function is an obvious expedient if the remaining elements perform the same function as before. In Re Karlson, 136 USPQ 184 (CCPA). Also note Ex parte rainu, 168 USPQ 375 (Bd.App.1969); omission of a reference element whose function is not needed would be obvious to one skilled in the art.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 16 and 37-41 are rejected under 35 USC 103(a) as being unpatentable over Lee (US Pat. No. 5,737,316).

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In claims 16 and 37, Lee discloses (see fig.4) a signal is transmitted from an anyzer 10 to a work station over a link 8 (generating a predetermined signal on the network link). A reflection signal is detected in response to an impedance mismatched (detecting a response of the link). See Abstract, & col. 10, lines 55-67. A low pass filter (see Fig.26) senses the contents of reflected signal to allow low frequency signal to pass through the filter (filtering the response of the link by removing a contribution of a real component of the resistance of the link). See col.9, lines 42-65. The link is identified to be defective if there is a mistmatched impedance (identifying impedance problems of the link). See col.11, lines 1-5. Lee does not disclose displaying the filtered data to assist in the identification of impedance problems. The Office Action is taken that displaying the data onto a monitoring computer that functions as the analyzer 10 is well known an expected in the art. It would have been obvious to use the analyzer 10 to display the filtered data to identify the impedance problems of the link.

In claims 40 and 41, Lee discloses, in Fig.4, the signal is transmitted over link 8 to a computer network (predetermined signal occurs on an computer network). See Abstract.

In claims 38 and 39, Lee discloses a network module 2 (non-terminator location) that transmits a signal and detects the contents of the reflected signal. See Fig.5, col. 8, lines 27-35.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Richardson (Pat. 6,016,464) disloses Method and System for Characterizing terminations in a LAN.

Felker et al. (US Pat. No. 4,890,278) discloses Apparatus and Method for Calibrated Monitoring of Output Voltage Levels Of LAN Communication Devices.

Ernst et al. (US Pat. No. 5,381,348) discloses Token Ring LAN Testing Apparatus Using Time Delay Reflectory.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh Nguyen whose telephone number is 571 272 3092. The examiner can normally be reached on Monday-Friday from 8AM to 5PM. The examiner can also be reached on alternate

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on 571 272 3088. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Hanh Nguyen

October 5, 2004